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## OPTICAL FIBER TRANSIMISSION LINE

## Abstract

An object of this invention is to realize satisfactory long haul transmission characteristics using two kinds of optical fibers. An optical fiber transmission line consists of a plurality of local dispersion compensating spans, wide dispersion compensating spans disposed at predetermined intervals, and optical repeating amplifiers to connect each span. The local dispersion compensating span consists of a first optical fiber with positive dispersion having an effective core area of 130  $\mu\text{m}^2$  or more and a second optical fiber with a negative dispersion value of -50 ps/nm/km or less to transmit the light output from the first optical fiber. The wide dispersion compensating span consists of a third optical fiber having the same configuration and composition with the first optical fiber.